

CLAIMS

1. An excavator in which an upper turning body is mounted on a lower traveling body, and an excavation attachment is provided on the upper turning body, comprising an engine as a power source, a generator driven by the engine, and a plurality of electric motors rotated by electric power supplied from the generator, characterized in that the electric motors as a driving source operate the lower traveling body, the upper turning body and each operating part of the excavation attachment.

2. The excavator according to claim 1, wherein surplus electric power from the generator is stored in a battery, and the electric motors are driven by the electric power stored in the battery as necessary.

3. The excavator according to claim 2, wherein electric power generated by regenerative control of the electric motors is stored in the battery.

4. The excavator according to ^{claim 1} ~~any of claims 1 to 3~~, wherein in the operating part provided with a hydraulic actuator, a hydraulic pump is driven by the electric motor, and said hydraulic actuator is operated by oil from said hydraulic pump.

5. The excavator according to claim 4, wherein as the hydraulic actuator in the operating part, a traveling hydraulic motor and a turning hydraulic motor are provided on the lower traveling body and the upper turning body, respectively, and oil from the hydraulic pump driven by one electric motor is selectively supplied to either said traveling hydraulic motor or said turning hydraulic motor.

6. The excavator according to claim 4 ~~or 5~~, using an electric motor-pump integrated type actuator in which the electric motor and the hydraulic pump in which a discharging direction of oil is converted according to the turning

direction of said electric motor.

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7. The excavator according to ^{claim 1}~~any of claims 1 to 3~~, wherein turning force of the electric motor is reduced by a reduction unit to apply it as the driving force the operating part.

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